

AMENDED CLAIMS

[received by the International Bureau on 31 August 2005 (31.08.2005);
Original claims 1-3 are replaced by Amended Claims 1-2]

1. (amended) A radial foil bearing comprising:

a) a top foil 1 satisfying condition represented by an
5 equation $t \geq 0.1 \cdot D^{0.33}$ (wherein t is the thickness(mm), D is the
diameter of a shaft(mm)).

b) a key 2 welded to a cut portion of the top foil 1;

c) an inner bump foil 3 disposed outwards of the top
foil, the inner bump being formed of a wider and higher bump and
10 a narrower and lower bump alternately arranged;

d) an outer bump foil 4 disposed outwards of the center
of the wider and higher bump of the inner bump foil 3, the outer
bump having a height lower than that of the narrower and lower
bump of the inner bump foil 3;

15 e) a bump sheet 5 for fixing the inner bump 3 and the
outer bump 4; and

f) a bearing housing 6 disposed outwards of the bump
sheet 5 and having a key groove 7.

20 2. The radial foil bearing according to claim 1, wherein
the inner diameter of the top foil 1 is coated with a metallic
dry lubricant, and then ground, so that a dry lubricant not
requiring a strong adhesiveness can be used.

3. (cancelled)

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